

**AMENDMENTS TO THE SPECIFICATION:**

Please add the following new paragraph after paragraph [0018]:

*A1*  
[0018.1] Figure 3 is a flowchart of a second embodiment of a method of forecasting unscheduled component demand for an aircraft fleet.

Please replace paragraph [0027] with the following amended paragraph:

[0027] In a preferred embodiment, K = 16 and the following sixteen models are selected for k = 1 to 16:

1.  $\lambda_{i,j,1,m} = \beta_0 + \beta_1 \sin(TEMP_m)$

2.  $\lambda_{i,j,2,m} = \beta_0 + \beta_1 \cos(TEMP_m)$

*A2*  
3.  $\lambda_{i,j,3,m} = \beta_0 + \beta_1 \sin(HRSSHP_{j,m})$

4.  $\lambda_{i,j,4,m} = \beta_0 + \beta_1 \cos(HRSSHP_{j,m})$

5.  $\lambda_{i,j,5,m} = \beta_0 + \beta_1 TEMP_m + \beta_2 HRSSHP_{j,m}$

6.  $\lambda_{i,j,6,m} = \beta_0 + \beta_1 TEMP_{j,m}^3 + \beta_2 TEMP_m^2 + \beta_3 TEMP_m$

7.  $\lambda_{i,j,7,m} = \beta_0 + \beta_1 HRSSHP_{j,m}^3 + \beta_2 HRSSHP_{j,m}^2 + \beta_3 HRSSHP_{j,m}$

8.  $\lambda_{i,j,8,m} = \beta_0 + \beta_1 TEMP_m^2 + \beta_2 HRSSHP_{j,m}^2 + \beta_3 TEMP_m * HRSSHP_{j,m} + \beta_4 TEMP_m + \beta_5 HRSSHP_{j,m}$

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9.  $\lambda_{i,j,9,m} = \beta_0 + \beta_1 \sin(TEMP_m)$

10.  $\lambda_{i,j,10,m} = \beta_0 + \beta_1 \cos(TEMP_m)$

11.  $\lambda_{i,j,11,m} = \beta_0 + \beta_1 \sin(CYCSHP_{j,m})$

12.  $\lambda_{i,j,12,m} = \beta_0 + \beta_1 \cos(CYCSHP_{j,m})$

13.  $\lambda_{i,j,13,m} = \beta_0 + \beta_1 TEMP_m + \beta_2 CYCSHP_{j,m}$

14.  $\lambda_{i,j,14,m} = \beta_0 + \beta_1 TEMP_m^3 + \beta_2 TEMP_m^2 + \beta_3 TEMP_m$

15.  $\lambda_{i,j,15,m} = \beta_0 + \beta_1 CYCSHP_{j,m}^3 + \beta_2 CYCSHP_{j,m}^2 + \beta_3 CYCSHP_{j,m}$

16.  $\lambda_{i,j,16,m} = \beta_0 + \beta_1 TEMP_m^2 + \beta_2 CYCSHP_{j,m}^2 + \beta_3 TEMP_m * CYCSHP_{j,m} + \beta_4 TEMP_m + \beta_5 CYCSHP_{j,m}$

where:

$\beta$  = a coefficient indexed by p, where  $p \subset \{1,5\}$ ;

$HRSSHP_{j,m}$  = average flight hours per aircraft type "j" during

month m;

$CYCSHP_{j,m}$  = average flight cycles per aircraft type "j"

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during month m; and

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TEMP<sub>m</sub> = actual or average national temperature during month "m."

Please replace paragraph [0028] with the following amended paragraph:

*A3*  
[0028] For models 1-8 above, time (t) is measured in units of flight ~~cycles~~ hours, while for models 9-16, time (t) is measured in units of flight [[hours]] cycles. Thus, for example, the coefficients  $\beta$  in models 1 and 9 are different from each other, etc.